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L4	65	L2 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 10:34

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	27	partial adj pattern adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:46
L2	19	L1 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:47
L3	0	approximate adj pattern adj match	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:48
L4	45	approximate adj pattern adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:48
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L7	120	L6 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:55
L8	1261	partial adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:55
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L10	256	L9 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:56
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L4	45	approximate adj pattern adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:48
L5	31	L4 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:50
L6	315	similarity adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:50
L7	120	L6 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:55
L8	1261	partial adj match\$3	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:55
L9	570	L8 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:55
L10	256	L9 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 12:56
L11	18	L9 and partial.ti.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:06
L14	1395	(partial adj result\$1) and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:16

L15	39	L14 and partial.ti.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:13
L16	458	L14 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:16
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L18	699027	trac\$3 and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:32
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L20	27939	tracing and @ad<"20010113"	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:32
L21	2537	L20 and tracing.ti.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:33
L22	143	L21 and model	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:38
L23	52	L21 and model and program	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/09/15 13:38


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 1 Formal verification and analysis of multimedia systems

Sérgio Campos, Berthier Ribeiro-Neto, Autran Macedo, Luciano Bertini

 October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1)**

 Full text available: [pdf\(1.35 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Multimedia systems such as video-on-demand (VOD) servers are time critical systems. These systems have strict response times, which implies that a delayed response can have serious consequence. For instance, in the case of a VOD server, an immediate consequence of a delayed response time can be user dissatisfaction, what can ultimately lead to the end of a business based on this system. Therefore, analysis and verification of timing properties of multimedia systems is an important problem. ...

 2 Automated Correctness Condition Generation for Formal Verification of Synthesized RTL Designs

Nazanin Mansouri, Ranga Vemuri

 January 2000 **Formal Methods in System Design**, Volume 16 Issue 1

 Full text available: [Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

High-level synthesis tools generate register-transfer level designs from algorithmic behavioral specifications. The high-level synthesis process typically consists of dependency graph scheduling, functional unit allocation, register allocation, interconnect allocation and controller generation tasks. Widely used algorithms for these tasks retain the overall control flow structure of the behavioral specification allowing code motion only within basic blocks. Further, high-level synthesis ...

Keywords: RT-level verification, correctness conditions, formal synthesis, high-level synthesis, theorem proving

 3 Accounting for various register allocation schemes during post-synthesis verification of RTL designs

Nazanin Mansouri, Ranga Vemuri

 January 1999 **Proceedings of the conference on Design, automation and test in Europe**

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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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 IEEE Std 1364-2001
 2001 Page(s):0_1 - 856
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Data-path expressions were ins ire(veloped by Bernd Bruegge and Pete ...

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W Hseush, GE Kaiser - portal.acm.org

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Page 1. Program Development for a Systolic Array Berad Bruegge Department of Computer Science Carnegie Mellon University Pittsburgh, Pennsylvania 15213 Abstract ...

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1 [WALRUS: a similarity retrieval algorithm for image databases](#)

Apostol Natsev, Rajeev Rastogi, Kyuseok Shim

 June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2
Full text available: [pdf\(1.63 MB\)](#)
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Traditional approaches for content-based image querying typically compute a single signature for each image based on color histograms, texture, wavelet transforms etc., and return as the query result, images whose signatures are closest to the signature of the query image. Therefore, most traditional methods break down when images contain similar objects that are scaled differently or at different locations, or only certain regions of the image match. In this paper ...

2 [Matching and indexing sequences of different lengths](#)

Tolga Bozkaya, Nasser Yazdani, Meral Özsoyoğlu

 January 1997 **Proceedings of the sixth international conference on Information and knowledge management**
Full text available: [pdf\(1.21 MB\)](#)
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3 [Data integration using similarity joins and a word-based information representation language](#)

William W. Cohen

 July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3
Full text available: [pdf\(312.80 KB\)](#)
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The integration of distributed, heterogeneous databases, such as those available on the World Wide Web, poses many problems. Here we consider the problem of integrating data from sources that lack common object identifiers. A solution to this problem is proposed for databases that contain informal, natural-language "names" for objects; most Web-based databases satisfy this requirement, since they usually present their information to the end-user through a veneer of text. We describe ...

4 [Similarity-based retrieval for diverse bookshelf software repository users](#)

Igor Jurisica


 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: [pdf\(126.60 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper presents a similarity-based retrieval framework for a software repository that aids the process of maintaining, understanding, and migrating legacy software systems [12]. Designing a software repository involves three issues: (1) information content; (2) information representation; and (3) strategies for accessing repository artifacts. Assuming the architecture presented in [12] we extend the retrieval system to support imprecise queries, iterative browsing, and diverse users. Because o ...

5 A multi-similarity algebra

S. Adali, P. Bonatti, M. L. Sapino, V. S. Subrahmanian

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available:  [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The need to automatically extract and classify the contents of multimedia data archives such as images, video, and text documents has led to significant work on similarity based retrieval of data. To date, most work in this area has focused on the creation of index structures for similarity based retrieval. There is very little work on developing formalisms for querying multimedia databases that support similarity based computations and optimizing such queries, even though it is well known ...

6 Similarity-based algebra for multimedia database systems

Solomon Atnafu, Lionel Brunie, Harald Kosch

January 2001 **Proceedings of the 12th Australasian conference on Database technologies ADC '01**

Full text available:  [pdf\(912.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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In database management systems, the need to integrate content-based image retrieval facilities has become one of the key issues. In this paper, we first illustrate the importance of such facilities with example queries and give an overview of the works done in similarity-based data retrieval. Then, we propose an image repository model that supports similarity-based operations on feature vector representations of images. Moreover, we introduce a new similarity-based algebra on image tables. Thus, ...

Keywords: image database, multimedia, multimedia join operator, query optimization, similarity-based algebra

7 Similarity-based queries for time series data

Davood Rafiei, Alberto Mendelzon

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study a set of linear transformations on the Fourier series representation of a sequence that can be used as the basis for similarity queries on time-series data. We show that our set of transformations is rich enough to formulate operations such as moving average and time warping. We present a query processing algorithm that uses the underlying R-tree index of a multidimensional data set to answer similarity queries efficiently. Our experiments show that the performance of this algorithm ...

8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of

the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 Assessing software libraries by browsing similar classes, functions and relationships

Amir Michail, David Notkin

May 1999 **Proceedings of the 21st international conference on Software engineering**

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Keywords: assessment, information retrieval, reuse, software libraries

10 Giving meanings to WWW images

Heng Tao Shen, Beng Chin Ooi, Kian-Lee Tan

October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available:  [pdf\(872.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#)


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Keywords: cluster validity, clustering-indexing relationships, cover coefficient, decoupling coefficient, document retrieval, retrieval effectiveness

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April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available:  [pdf\(1.04 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 VAGUE: a user interface to relational databases that permits vague queries

Amihai Motro

July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3

Full text available:  [pdf\(2.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

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Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

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1 [WALRUS: a similarity retrieval algorithm for image databases](#)

Apostol Natsev, Rajeev Rastogi, Kyuseok Shim

 June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

 Full text available: [pdf\(1.63 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional approaches for content-based image querying typically compute a single signature for each image based on color histograms, texture, wavelet transforms etc., and return as the query result, images whose signatures are closest to the signature of the query image. Therefore, most traditional methods break down when images contain similar objects that are scaled differently or at different locations, or only certain regions of the image match. In this paper ...

2 [Matching and indexing sequences of different lengths](#)

Tolga Bozkaya, Nasser Yazdani, Meral Özsoyoğlu

 January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

 Full text available: [pdf\(1.21 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Data integration using similarity joins and a word-based information representation language](#)

William W. Cohen

 July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

 Full text available: [pdf\(312.80 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The integration of distributed, heterogeneous databases, such as those available on the World Wide Web, poses many problems. Here we consider the problem of integrating data from sources that lack common object identifiers. A solution to this problem is proposed for databases that contain informal, natural-language "names" for objects; most Web-based databases satisfy this requirement, since they usually present their information to the end-user through a veneer of text. We describe ...

4 [Similarity-based retrieval for diverse bookshelf software repository users](#)

Igor Jurisica

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

 Full text available: [pdf\(126.60 KB\)](#)


 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The paper presents a similarity-based retrieval framework for a software repository that aids the process of maintaining, understanding, and migrating legacy software systems [12]. Designing a software repository involves three issues: (1) information content; (2) information representation; and (3) strategies for accessing repository artifacts. Assuming the architecture presented in [12] we extend the retrieval system to support imprecise queries, iterative browsing, and diverse users. Because o ...

5 A multi-similarity algebra

S. Adali, P. Bonatti, M. L. Sapino, V. S. Subrahmanian

June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available:  [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The need to automatically extract and classify the contents of multimedia data archives such as images, video, and text documents has led to significant work on similarity based retrieval of data. To date, most work in this area has focused on the creation of index structures for similarity based retrieval. There is very little work on developing formalisms for querying multimedia databases that support similarity based computations and optimizing such queries, even though it is well known ...

6 Similarity-based algebra for multimedia database systems

Solomon Atnafu, Lionel Brunie, Harald Kosch

January 2001 **Proceedings of the 12th Australasian conference on Database technologies ADC '01**

Full text available:  [pdf\(912.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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In database management systems, the need to integrate content-based image retrieval facilities has become one of the key issues. In this paper, we first illustrate the importance of such facilities with example queries and give an overview of the works done in similarity-based data retrieval. Then, we propose an image repository model that supports similarity-based operations on feature vector representations of images. Moreover, we introduce a new similarity-based algebra on image tables. Thus, ...

Keywords: image database, multimedia, multimedia join operator, query optimization, similarity-based algebra

7 Similarity-based queries for time series data

Davood Rafiei, Alberto Mendelzon

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data**, Volume 26 Issue 2

Full text available:  [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study a set of linear transformations on the Fourier series representation of a sequence that can be used as the basis for similarity queries on time-series data. We show that our set of transformations is rich enough to formulate operations such as moving average and time warping. We present a query processing algorithm that uses the underlying R-tree index of a multidimensional data set to answer similarity queries efficiently. Our experiments show that the performance of this algorithm ...

8 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of

the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

9 Assessing software libraries by browsing similar classes, functions and relationships

Amir Michail, David Notkin

May 1999 **Proceedings of the 21st international conference on Software engineering**


Full text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

Keywords: assessment, information retrieval, reuse, software libraries

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Heng Tao Shen, Beng Chin Ooi, Kian-Lee Tan

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